



RESEARCH ARTICLE.....

# Effect of feeding of urea ammoniated soybean straw on blood biochemical parameters of lactating cows

R.R. SHELKE, S.D. CHAVAN, S.P. WAGHMARE AND P.A. KAHATE

**ABSTRACT**..... Feeding of untreated soybean straw ( $T_2$ ) and 2 per cent urea treated soybean straw ( $T_3$ ) was evaluated on the performance of lactating cows in reference to conventional jowar straw diet ( $T_1$ ). It was found within 120 days trial that, the Hb levels showed a increase from the initial level of 9.83 to 9.96, 9.76 to 10.08 and 9.86 to 10.80 g/dl/cow, blood glucose levels increased from 48.68 to 48.89, 45.89 to 53.36 and 45.16 to 56.24 mg/dl in  $T_1$ ,  $T_2$  and  $T_3$  groups, respectively The STP levels increase from initial content was 5.89 to 6.05, 5.76 to 6.38 and 5.70 to 6.58 g/dl, Significantly more BUN (17.82 mg/dl) was noticed in cows offered with  $T_3$  followed by  $T_2$  (13.85 mg/dl) and  $T_1$  (16.66 mg/dl) while blood urea pooled means were noticed as 29.65, 38.13 and 35.67 mg/dl in cows offered  $T_1$ ,  $T_2$  and  $T_3$  groups, respectively The pooled means of STL were 278.15, 298.22 and 302.30 mg/d, the pooled means of STC content were 69.18, 68.64 and 77.06mg/dl and the serum triglyceride content of blood increased were 16.72, 16.79 and 17.57mg/dl, in cows offered  $T_1$ ,  $T_2$  and  $T_3$  groups, respectively. The results do suggest that 2 per cent urea treated SBS can find a place in the ration of lactating cows without any adverse effect on health of cows.

Author for Corresponding -

**R.R. SHELKE**

Department of Animal  
Husbandry and Dairy Science,  
College of Agriculture, Dr.  
Panjabrao Deshmukh Krishi  
Vidyapeeth, AKOLA (M.S.) INDIA  
Email: [rrspkv@gmail.com](mailto:rrspkv@gmail.com)

See end of the article for  
**Coopted authors'**

**KEY WORDS**..... Conventional jowar straw, Untreated soybean straw, 2 per cent urea treated soybean straw, Blood metabolic profile, Haemoglobin (Hb), Blood glucose, Serum total protein (STP), Blood urea nitrogen (BUN), Blood urea, Serum total lipids (STL)/ cholesterol/ triglyceride

**HOW TO CITE THIS ARTICLE** - Shelke, R.R., Chavan, S.D., Waghmare, S.P. and Kahate, P.A. (2015). Effect of feeding of urea ammoniated soybean straw on blood biochemical parameters of lactating cows. *Asian J. Animal Sci.*, 10(2): 140-145.

**ARTICLE CHRONICLE** - Received : 30.06.2015; Revised : 06.11.2015; Accepted : 10.11.2015